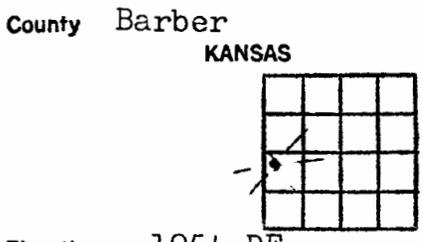


WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company. NATIONAL COOPERATIVE REF'RY. ASS'N. SEC. 18 T. 32 R. 14W  
Farm. Stumph-Smith "B" No.1 NW NW SW

Total Depth. 5078  
Comm. 1-29-57 Comp. 2-20-57  
Shot or Treated.  
Contractor. Aylward Drilling Co.  
Issued. 7-13-57



8 5/8 @ CASING, 233' w/ 200 sx cmt.  
5 1/2 @ 5077' w/ 125 sx cmt.

Production. 6,100,000 CFGPD

Figures Indicate Bottom of Formations.

clay	30	min. 606 MCF, 1 hr. 620 MCF, rec.
sand	60	45' SGCM, FP 150-150#, IBHP 1720#,
red rock	102	FBHP 1660#
red rock & red bed	670	
red rock	750	DST #3: 4729-60, open 1 hr. SI 20
red rock & shells	986	min. rec. 15' SGCM, FP 50-65#, IBHP
red rock & shale	1350	710#, FBHP 1040#
salt	1385	
shale & shells	1550	DST #4: 4759-4800, open 1 hr SI 20
shale & lime shelves	1775	min. rec. 10' mud, FP 0-0#, IBHP 20#
lime, very little shale	1890	FBHP 20#
lime & shale	2160	
lime	2340	DST #5: 4883-98, open 1 hr. SI 20
lime & shale	2375	min. rec. 5' DM, FP 0-0#, IBHP 15#
lime	2445	FBHP 15#
sandy lime & shale	2570	
lime w/ shale	2670	DST #6: 4932-64, open 1 hr SI 20
shale & lime	3058	min. no rec. FP 0-0#, IBHP & FBHP
shale & sandy lime	3335	0#
shale & lime	3584	
shale & sand	3690	DST #7: 5048-68, open 1 1/2 hrs. SI 20
shale & lime	3790	min. rec. 10' wtry mud w/ rainbow of
shale & sandy lime	3892	oil, FP 25-25#, IBHP 155#, FBHP 145#
shale & lime	4178	
sand & lime	4221	DST #8: 5069-78, open 1 hr. SI 20
shale & lime	4280	min. rec. 45' VSoily muddy wtr. w/
lime	4637	tr. free oil in DS tool, 1440' gas
lime & shale	4715	FP 0-0#, IBHP 1780#, FBHP 320#
lime	4740	
lime & shale	4760	
lime	4800	
shale & lime	4952	
lime	4977	
lime & shale	4997	
lime	5068	
sand	5078	
Total Depth		

TOPS:

Heebner	4013
Douglas	4063
Douglas sand	4169
Lansing	4200
Massey	4650
Mississippian	4704
Kinderhook	4772
Viola	4927
Simpson	5053
Simpson sand	5058

DST #1: 4161-78, open 1 hr. SI 20 min.  
rec. 930' HG&SOCSW, 1270' SW, gas to  
surf. 1 hr 10 min. not enough to meas.  
FP 260-980#, IBHP 1540#, FBHP 1520#

DST #2: 4704-30, open 1 hr. SI 20 min.  
gas to surf 6 min. gauge 7 min. 517 MCF  
15 min. 537 MCF, 30 min 584 MCF, 45